What is claimed is:

- 1. An automatic changeover method of communication networks comprising:
- 5 (a) communicating with a second station by a first station through a first wireless communication network;
- (b) measuring a first level fluctuation value more than once by said first station, wherein said 10 first level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network;
- (c) calculating a first average level

 15 fluctuation value by said first station, wherein

 said first average level fluctuation value is an

 average of a plurality of said first level

 fluctuation values; and
- (d) changing over from said first wireless
 20 communication network to a second wireless
 communication network by said first station, based
 on said first average level fluctuation value.
- The method according to claim 1, wherein said
 first wireless communication network is a network
 for a wireless LAN (Local Area Network), and said

second wireless communication network is a network for a PHS (personal Handyphone System).

- 3. The method according to claim 1, wherein said5 step (d) comprising:
 - (d1) comparing said first average level fluctuation value with a first setting value by said first station; and
- (d2) changing over from said first wireless
 10 communication network to said second wireless
 communication network by said first station based
 on a first result of said comparison.
- 4. The method according to claim 3, wherein said15 step (d2) comprising:
- (d21) sending a first communication request signal to said second station by said first station through said second wireless communication network based on said first result of said comparison, wherein said first communication request signal indicates a request for a changeover from said first wireless communication network to said second wireless communication network; and
- (d22) ending a communication through said

 25 first wireless communication network and starting
 a communication with said second station by said

first station through said second wireless communication network, when said first station receives a first communication answer signal from said second station through said second wireless communication network, wherein said first communication answer signal indicates an answer that said second station can communicate through said second wireless communication network.

- 10 5. The method according to claim 1, further comprising:
 - (e) measuring a second level fluctuation value more than once by said first station, wherein said second level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network during communicating with said second station through said second wireless communication network;

- (f) calculating a second average level fluctuation value by said first station, wherein said second average level fluctuation value is an average of a plurality of said second level fluctuation values;
- 25 (g) sending a second communication request signal to said second station by said first station

through said first wireless communication network based on said second average level fluctuation value, wherein said second communication request signal indicates an request for the changeover from said second wireless communication network to said first wireless communication network; and

5

- ending a communication (h) through said second wireless communication network and starting a communication with said second station 10 by said first station through said first wireless communication network, when said first station receives a second communication answer signal from said second station through said first wireless communication network, wherein said second 15 communication answer signal indicates an answer that said second station can communicate through said first wireless communication network.
- 6. The method according to claim 1, wherein said20 step (a) comprising:
 - (a1) measuring a third level fluctuation value more than once by said first station, wherein said third level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network before

communicating with said second station;

- (a2) calculating a third average level fluctuation value by said first station, wherein said third average level fluctuation value is an average of a plurality of said third level fluctuation values;
- (a3) sending a first inquiry signal to said second station by said first station through said first wireless communication network based on said third average level fluctuation value, wherein said first inquiry signal indicates an inquiry whether or not said second station can communicate through said first wireless communication network; and
- 15 (a4) starting a communication with said second station by said first station through said first wireless communication network, when said first station receives a first answer signal from said second station through said first wireless communication network, wherein said first answer signal indicates an answer that said second station can communicate through said first wireless communication network.
- 25 7. The method according to claim 2, wherein said step (d) comprising:

- (d3) comparing said first average level fluctuation value with a first setting value by said first station; and
- (d4) changing over from said first wireless
 5 communication network to said second wireless
 communication network by said first station based
 on a first result of said comparison.
- 8. The method according to claim 7, wherein said 10 step (d4) comprising:
- (d41) sending a first communication request signal to said second station by said first station through said second wireless communication network based on said first result οf said 15 first comparison, wherein said communication request signal indicates a request for a changeover from said first wireless communication network to said second wireless communication network; and
- 20 first wireless communication network and starting a communication with said second station by said first station through said second wireless communication network, when said first station receives a first communication answer signal from 25 said second station through said second wireless

communication network, wherein

(d42) ending a communication through said

said

first

communication answer signal indicates an answer that said second station can communicate through said second wireless communication network.

- 5 9. The method according to claim 2, further comprising:
- (i) measuring a second level fluctuation value more than once by said first station, wherein said second level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network during communicating with said second station through said second wireless communication network;
- (j) calculating a second average level fluctuation value by said first station, wherein said second average level fluctuation value is an average of a plurality of said second level fluctuation values;
- 20 (k) sending a second communication request signal to said second station by said first station through said first wireless communication network based on said second average level fluctuation value, wherein said second communication request signal indicates an request for the changeover from said second wireless communication network to said

first wireless communication network; and

5

10

20

- (1) ending a communication through said second wireless communication network and starting a communication with said second station by said first station through said first wireless communication network, when said first station receives a second communication answer signal from said second station through said first wireless communication network, wherein said second communication answer signal indicates an answer that said second station can communicate through said first wireless communication network.
- 10. The method according to claim 2, wherein said15 step (a) comprising:
 - (a5) measuring a third level fluctuation value more than once by said first station, wherein said third level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network before communicating with said second station;
 - (a6) calculating a third average level fluctuation value by said first station, wherein said third average level fluctuation value is an average of a plurality of said third level

fluctuation values;

5

- (a7) sending a first inquiry signal to said second station by said first station through said first wireless communication network based on said third average level fluctuation value, wherein said first inquiry signal indicates an inquiry whether or not said second station can communicate through said first wireless communication network; and
- second station by said first station through said first wireless communication network, when said first station receives a first answer signal from said second station through said first wireless communication network, wherein said first answer signal indicates an answer that said second station can communicate through said first wireless communication network.
- 20 11. An automatic changeover method of communication networks comprising:
 - (m) measuring a first level fluctuation value more than once by a first station, wherein said first level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from a first

wireless communication network;

5

10

- (n) calculating a first average level fluctuation value by said first station, wherein said first average level fluctuation value is an average of a plurality of said first level fluctuation values;
- (o) sending a first inquiry signal to a second station by said first station through said first wireless communication network based on said first average level fluctuation value, wherein said first inquiry signal indicates an inquiry whether or not said second station can communicate through said first wireless communication network;
- (p) communicating with said second station by said first station through said first wireless 15 communication network, when said first station receives a first answer signal from said second station through said first wireless communication network, wherein said first answer indicates an answer that said second station can 20 through said first wireless communicate communication network; and
 - (q) communicating with said second station by said first station through a second wireless communication network, when said first station receives a second answer signal from said second

station through said first wireless communication network, wherein said second answer signal indicates an answer that said second station cannot communicate through said first wireless communication network, or when said first station does not receives any answer signal within a certain time period.

- 12. The method according to claim 11, wherein said

 first wireless communication network is a network

 for a wireless LAN (Local Area Network), and said

 second wireless communication network is a network

 for a PHS (personal Handyphone System).
- 15 13. The method according to claim 12, wherein said step (g) comprising:
 - (o1) comparing said first average level fluctuation value with a first setting value by said first station; and
- 20 (o2) sending a first inquiry signal to a second station by said first station through said first wireless communication network based on a result of said comparison.
- 25 14. A computer program product embodied on a computer-readable medium and comprising code that,

when executed, causes a computer of a first station to perform the following:

- (a) communicating with a second station through a first wireless communication network;
- 5 (b) measuring a first level fluctuation value than once, wherein said first fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless 10 communication network;
 - (c) calculating a first average level fluctuation value, wherein said first average level fluctuation value is an average of a plurality of said first level fluctuation values; and
 - (d) changing over from said first wireless communication network to a second wireless communication network, based on said first average level fluctuation value.

20

25

15

15. The computer program product according to claim 14, wherein said first wireless communication network is a network for a wireless LAN (Local Area Network), and said second wireless communication network is a network for a PHS (personal Handyphone System).

- 16. The computer program product according to claim 14, wherein said step (d) comprising:
- (d1) comparing said first average level
 5 fluctuation value with a first setting value; and
 - (d2) changing over from said first wireless communication network to said second wireless communication network based on a first result of said comparison.

10

- 17. The computer program product according to claim 16, wherein said step (d2) comprising:
- (d21) sending a first communication request signal to said second station through said second wireless communication network based on said first result of said comparison, wherein said first communication request signal indicates a request for a changeover from said first wireless communication network to said second wireless communication network; and
 - (d22) ending a communication through said first wireless communication network and starting a communication with said second station through said second wireless communication network, when said first station receives a first communication answer signal from said second station through said

second wireless communication network, wherein said first communication answer signal indicates an answer that said second station can communicate through said second wireless communication network.

5

20

- 18. The computer program product according to claim 14, further comprising:
- (e) measuring a second level fluctuation

 value more than once, wherein said second level

 fluctuation value indicates a fluctuation degree

 of electric field intensity of an electromagnetic

 wave received from said first wireless

 communication network during communicating with

 said second station through said second wireless

 communication network:
 - (f) calculating a second average level fluctuation value, wherein said second average level fluctuation value is an average of a plurality of said second level fluctuation values;
 - (g) sending a second communication request signal to said second station through said first wireless communication network based on said second average level fluctuation value, wherein said second communication request signal indicates an request for the changeover from said

second wireless communication network to said first wireless communication network; and

- (h) ending a communication through said wireless communication second network and starting a communication with said second station through said first wireless communication network, first station receives when said а second communication answer signal from said second station through said first wireless communication 10 network, wherein said second communication answer signal indicates an answer that said second station communicate through said first wireless communication network.
- 15 19. The computer program product according to claim 14, wherein said step (a) comprising:
- (a1) measuring a third level fluctuation value more than once, wherein said third level fluctuation value indicates a fluctuation degree 20 of electric field intensity of an electromagnetic wave received from said first wireless communication network before communicating with said second station:
- (a2) calculating a third average level
 25 fluctuation value, wherein said third average
 level fluctuation value is an average of a

plurality of said third level fluctuation values;

(a3) sending a first inquiry signal to said second station through said first wireless communication network based on said third average level fluctuation value, wherein said first inquiry signal indicates an inquiry whether or not said second station can communicate through said first wireless communication network; and

5

- (a4) starting a communication with said 10 second station through said first wireless communication network, when said first station receives a first answer signal from said second station through said first wireless communication said first answer network, wherein indicates an answer that said second station can 1.5 said first wireless communicate through communication network.
- 20. The computer program product according to
 20 claim 15, wherein said step (d) comprising:
 - (d3) comparing said first average level fluctuation value with a first setting value; and
 - (d4) changing over from said first wireless communication network to said second wireless communication network based on a first result of said comparison.

- 21. The computer program product according to claim 20, wherein said step (d4) comprising:
- (d41) sending a first communication request 5 signal to said second station through said second wireless communication network based on said first result of said comparison, wherein said first communication request signal indicates a request said first for a changeover from wireless 10 communication network to said second wireless communication network; and
- (d42) ending a communication through said first wireless communication network and starting a communication with said second station through said second wireless communication network, when said first station receives a first communication answer signal from said second station through said second wireless communication network, wherein said first communication answer signal indicates an answer that said second station can communicate through said second wireless communication network.
- 22. The computer program product according to
 25 claim 15, further comprising:
 - (i) measuring a second level fluctuation

value more than once, wherein said second level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network during communicating with said second station through said second wireless communication network;

5

10

- (j) calculating a second average level fluctuation value, wherein said second average level fluctuation value is an average of a plurality of said second level fluctuation values;
- (k) sending a second communication request signal to said second station through said first wireless communication network based on said second average level fluctuation value, wherein said second communication request signal indicates an request for the changeover from said second wireless communication network to said first wireless communication network; and
- 20 ending a communication (1) through said second wireless communication network and starting a communication with said second station through said first wireless communication network, said first station receives when а second 25 communication answer signal from said station through said first wireless communication

network, wherein said second communication answer signal indicates an answer that said second station can communicate through said first wireless communication network.

- 23. The computer program product according to claim 15, wherein said step (a) comprising:
- (a5) measuring a third level fluctuation value more than once, wherein said third level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network before communicating with said second station;
- fluctuation value, wherein said third average level level fluctuation value is an average of a plurality of said third level fluctuation values;
- (a7) sending a first inquiry signal to said second station through said first wireless communication network based on said third average level fluctuation value, wherein said first inquiry signal indicates an inquiry whether or not said second station can communicate through said first wireless communication network; and
 - (a8) starting a communication with said

station through said first wireless second communication network, when said first station receives a first answer signal from said second station through said first wireless communication first answer signal said network, wherein indicates an answer that said second station can first wireless said through communicate communication network.

- 10 24. A computer program product embodied on a computer-readable medium and comprising code that, when executed, causes a computer of a first station to perform the following:
- (m) measuring a first level fluctuation value
 15 more than once, wherein said first level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from a first wireless communication network;
- (n) calculating a first average level fluctuation value, wherein said first average level fluctuation value is an average of a plurality of said first level fluctuation values;
- (o) sending a first inquiry signal to a second

 25 station through said first wireless communication

 network based on said first average level

fluctuation value, wherein said first inquiry signal indicates an inquiry whether or not said second station can communicate through said first wireless communication network;

- through said first wireless communication network,
 when said first station receives a first answer
 signal from said second station through said first
 wireless communication network, wherein said
 first answer signal indicates an answer that said
 second station can communicate through said first
 wireless communication network; and
- (q) communicating with said second station through a second wireless communication network,

 when said first station receives a second answer signal from said second station through said first wireless communication network, wherein said second answer signal indicates an answer that said second station cannot communicate through said first wireless communication network, or when said first station does not receives any answer signal within a certain time period.
- 25. The computer program product according to
 25 claim 24, wherein said first wireless
 communication network is a network for a wireless

LAN (Local Area Network), and said second wireless communication network is a network for a PHS (personal Handyphone System).

- 5 26. The computer program product according to claim 25, wherein said step (g) comprising:
 - (o1) comparing said first average level fluctuation value with a first setting value; and
- (o2) sending a first inquiry signal to a second station through said first wireless communication network based on a result of said comparison.
- 27. An automatic changeover system for 15 communication networks comprising:
 - a first station; and
 - a second station;

wherein said first station communicates with said second station through a first wireless communication network, measures a first level fluctuation value more than once, calculates a first average level fluctuation value, and changes over from said first wireless communication network to a second wireless communication network based on said first average level fluctuation value,

said first level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network,

said first average level fluctuation value is an average of a plurality of said first level fluctuation values, and

said first wireless communication network is a network for a wireless LAN (Local Area Network), and said second wireless communication network is a network for a PHS (personal Handyphone System).

- 28. An automatic changeover station for communication networks comprising:
- 15 a first communication section which communicates with another station through a first wireless communication network;
- a first watching section which measures a first level fluctuation value more than once, and calculates a first average level fluctuation value, wherein said first level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network and said first average level fluctuation value is an average of a plurality of said first level fluctuation

values;

5

10

a second communication section which has a function to communicate with said another station through a second wireless communication network; and

a control section which controls said first communication section and said second communication section to change over from said first wireless communication network to said second wireless communication network based on said first average level fluctuation value.

- 29. The automatic changeover station according to claim 28, wherein said first wireless communication network is a network for a wireless LAN (Local Area Network), and said second wireless communication network is a network for a PHS (personal Handyphone System).
- 20 30. The automatic changeover station according to claim 28, wherein said control section compares said first average level fluctuation value with a first setting value, and

said control section controls said first

25 communication section and said second

communication section such that said first

communication section cuts said communication with said another station through said first wireless communication network, and said second communication section starts communication with said another station through said second wireless communication network based on a first result of said comparison.

- 31. The automatic changeover station according to claim 30, wherein said second communication section sends a first communication request signal to said another station through said second wireless communication network based on said first result of said comparison,
- 15 said first communication request signal indicates a request for a changeover from said first wireless communication network to said second wireless communication network,

communication through said first wireless communication network, when said second station receives a first communication answer signal from said another station through said second wireless communication network, wherein said first communication answer signal indicates an answer that said second station can communicate through

said second wireless communication network, and said second communication section starts a communication with said another station through said second wireless communication network.

5

- 32. The automatic change over station according to claim 28, wherein said first watching section measures a second level fluctuation value more than once, wherein said second level fluctuation value indicates a fluctuation degree of electric field intensity of an electromagnetic wave received from said first wireless communication network during communicating with said another station through said second wireless communication network,
- said first watching section calculates a second average level fluctuation value by said first station, wherein said second average level fluctuation value is an average of a plurality of said second level fluctuation values,
- 20 said control section controls said first communication section such that said first sends communication section a second communication request signal to said another station through said first wireless communication 25 network based on said second average level fluctuation value, wherein said second

communication request signal indicates an request for the changeover from said second wireless communication network to said first wireless communication network, and

said control section controls said second 5 communication section such that said second communication section ends a communication through said second wireless communication network and starts a communication with said another station through said first wireless 10 communication network, when first communication section receives a second communication answer signal from said another station through said first communication network, wherein said wireless second communication answer signal indicates an 15 answer that said another station can communicate said first wireless communication through network.